Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-06-13-04** **Date: 18/06/2018**
Customer	:	Assistant Executive Engineer, T-Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T-Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements CC Road and drain at Amoga hotel back side Roads in Dasarahalli in ward No.15
Agency	:	Sri. Eregowda S M, No .03,5th Cross, 6th Main, Bhuvaneshwari Nagara, T. Dasarahalli, Bengaluru-560057.
Customer's Reference	:	EE/DD/WO/260/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-06-18
Sample ID No	:	2018-06-13-04 /01
Customer ID	:	Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	18/06/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Wall Concrete	M20	11/06/2018	18/06/2018	150.69 X 150.87 X 150.22	22735	8.120	400.1	17.6	17.8
2	Wall Concrete	M20	11/06/2018	18/06/2018	150.63 X 150.40 X 150.54	22655	8.110	410.1	18.1	
3	Wall Concrete	M20	11/06/2018	18/06/2018	150.88 X 150.78 X 150.90	22750	8.150	404.9	17.8	

Note:
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R.KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO BANGALORE Sig..... Date.....

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****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-06-13-04** **Date: 09/07/2018**

Customer : Assistant Executive Engineer, T-Dasarahalli Sub Division, BBMP, Bangalore.

Address : T-Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Improvements CC Road and drain at Amoga hotel back side Roads in Dasarahalli in ward No.15

Agency : Sri. Eregowda S M, No .03,5th Cross, 6th Main, Bhuvaneshwari Nagara, T. Dasarahalli, Bengaluru-560057.

Customer's Reference : EE/DD/WO/260/17-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-06-18

Sample ID No : 2018-06-13-04 /02

Customer ID : Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/07/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Wall Concrete	M20	11/06/2018	09/07/2018	150.35 X 150.82 X 150.00	22676	8.220	505.7	22.3	22.6
2	Wall Concrete	M20	11/06/2018	09/07/2018	150.44 X 150.65 X 150.89	22664	8.300	509.9	22.5	
3	Wall Concrete	M20	11/06/2018	09/07/2018	150.33 X 150.44 X 150.65	22616	8.100	522.4	23.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-06-26-09** **Date: 30/06/2018**

Customer : Assistant Executive Engineer, T-Dasarahalli Sub Division, BBMP, Bangalore.

Address : T-Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Improvements CC Road and drain at Amoga hotel back side Roads in Dasarahalli in ward No.15

Agency : Sri. Eregowda S M, No .03,5th Cross, 6th Main, Bhuvaneshwari Nagara, T. Dasarahalli, Bengaluru-560057.

Customer's Reference : EE/DD/WO/260/17-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-06-18

Sample ID No : 2018-06-26-09 /01

Customer ID : C C Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/06/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	C C Pavement	M30	23/06/2018	30/06/2018	149.27 X 151.57 X 149.89	22624	0.000	570.6	25.2	25.4
2	C C Pavement	M30	23/06/2018	30/06/2018	150.71 X 150.10 X 149.33	22622	0.000	606.7	26.8	
3	C C Pavement	M30	23/06/2018	30/06/2018	151.17 X 151.44 X 151.46	22893	0.000	553.4	24.2	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-06-26-09** **Date: 21/07/2018**

Customer : Assistant Executive Engineer, T-Dasarahalli Sub Division, BBMP, Bangalore.

Address : T-Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Improvements CC Road and drain at Amoga hotel back side Roads in Dasarahalli in ward No.15

Agency : Sri. Eregowda S M, No .03,5th Cross, 6th Main, Bhuvaneshwari Nagara, T. Dasarahalli, Bengaluru-560057.

Customer's Reference : EE/DD/WO/260/17-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-06-18

Sample ID No : 2018-06-26-09 /02

Customer ID : C C Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/07/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	C C Pavement	M30	23/06/2018	21/07/2018	149.52 X 151.98 X 150.69	22724	**8.287**	769.5	33.9	33.2
2	C C Pavement	M30	23/06/2018	21/07/2018	151.16 X 150.73 X 149.40	22785	**8.183**	741.8	32.6	
3	C C Pavement	M30	23/06/2018	21/07/2018	149.23 X 151.30 X 149.59	22578	**8.347**	747.2	33.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-06-26-09** **Date: 30/06/2018**

Customer : Assistant Executive Engineer, T-Dasarahalli Sub Division, BBMP, Bangalore.

Address : T-Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Improvements CC Road and drain at Amoga hotel back side Roads in Dasarahalli in ward No.15

Agency : Sri. Eregowda S M, No .03,5th Cross, 6th Main, Bhuvaneshwari Nagara, T. Dasarahalli, Bengaluru-560057.

Customer's Reference : EE/DD/WO/260/17-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-06-18

Sample ID No : 2018-06-26-09 /03

Customer ID : C C Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/06/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	C C Pavement	M30	23/06/2018	30/06/2018	151.41 X 150.57 X 149.82	22797	8.438	584.4	25.6	25.4
2	C C Pavement	M30	23/06/2018	30/06/2018	149.68 X 151.53 X 149.45	22681	8.398	600.1	26.5	
3	C C Pavement	M30	23/06/2018	30/06/2018	149.27 X 149.28 X 150.93	22283	8.304	539.2	24.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-06-26-09** **Date: 21/07/2018**

Customer : Assistant Executive Engineer, T-Dasarahalli Sub Division, BBMP, Bangalore.

Address : T-Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Improvements CC Road and drain at Amoga hotel back side Roads in Dasarahalli in ward No.15

Agency : Sri. Eregowda S M, No .03,5th Cross, 6th Main, Bhuvaneshwari Nagara, T. Dasarahalli, Bengaluru-560057.

Customer's Reference : EE/DD/WO/260/17-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-06-18

Sample ID No : 2018-06-26-09 /04

Customer ID : C C Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/07/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	C C Pavement	M30	23/06/2018	21/07/2018	150.22 X 150.54 X 150.55	22614	7.959	759.0	33.6	33.1
2	C C Pavement	M30	23/06/2018	21/07/2018	150.22 X 150.54 X 150.55	22614	8.420	728.2	32.2	
3	C C Pavement	M30	23/06/2018	21/07/2018	150.22 X 150.54 X 150.55	22614	8.318	758.7	33.5	

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-05-25-02** **Date: 28-05-18**
Customer	:	Assistant Executive Engineer, T-Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T-Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements CC Road and drain at Amoga hotel back side Roads in Dasarahalli in ward No.15
Agency	:	Sri. Eregowda S M, No .03,5th Cross, 6th Main, Bhuvaneshwari Nagara, T. Dasarahalli, Bengaluru-560057.
Customer Reference	:	EE/DD/WO/260/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-05-18
Sample ID No	:	2018-05-25-02 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	25-05-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	245	245	4.9	95.1	90-100
3	10 mm	2675	2920	58.4	41.6	25-55
4	4.75 mm	1798	4718	94.4	5.6	0-10
5	Pan	282	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-05-25-02** **Date: 28-05-18**

Sample ID No : 2018-05-25-02 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.8	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.9	
3	Specific Gravity	2.63	_
4	Bulk Density(Loose) (Kg/l)	1.47	_
5	Bulk Density(Compacted) (Kg/l)	1.53	_
6	Water Absorption(%)	0.22	_
7	Aggregate crushing Value(%)	23.8	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.1	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Authorized Signature
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